

CopyBox

CD-DVD Duplicator



User Manual

v. 8.0 D

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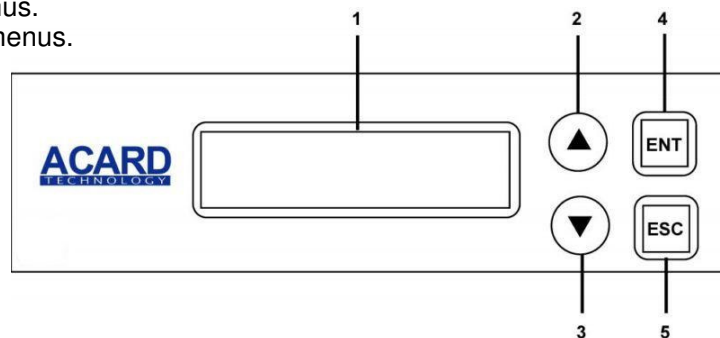
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Chapter 1 The Panel

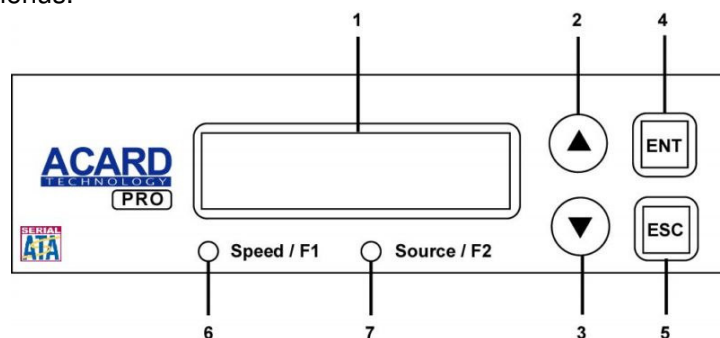
There are four buttons and a LCD on the panel of IDE Copy all version and SATA Copy Standard Version.

1. It shows a function or a message.
2. It's used to scroll up function menus.
3. It's used to scroll down function menus.
4. It's used to execute a function.
5. It's used to cancel a function.



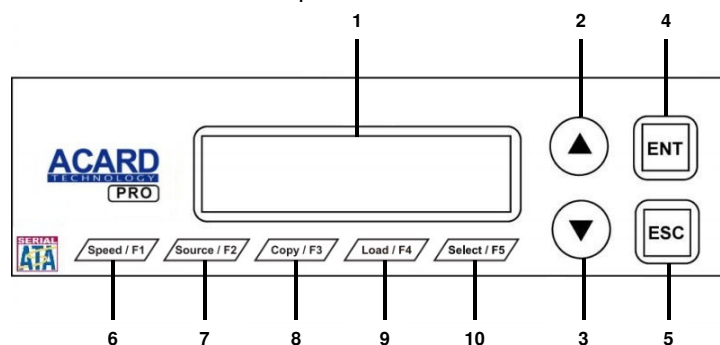
There are six buttons and a LCD on the panel of 2nd Generation SATA Copy Professional Version.

1. It shows a function or a message.
2. It's used to scroll up function menus.
3. It's used to scroll down function menus.
4. It's used to execute a function.
5. It's used to cancel a function.
6. It's a quick lunch to enter "Speed Menu".
7. It's a quick lunch to enter "Source Menu".



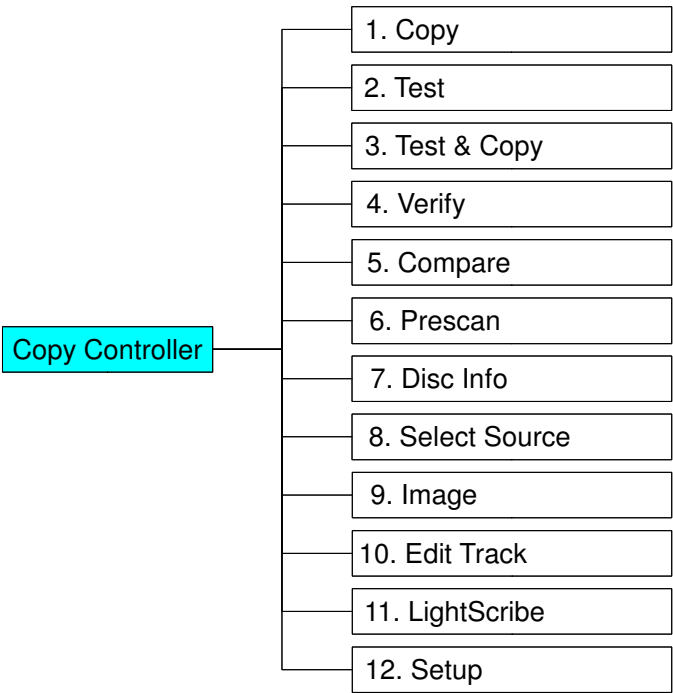
There are nine buttons and a LCD on the panel of 2.5 Generation SATA Copy Professional Version.

1. It shows a function or a message.
2. It's used to scroll up function menus.
3. It's used to scroll down function menus.
4. It's used to execute a function.
5. It's used to cancel a function.
6. It's a quick lunch to enter "Speed Menu".
7. It's a quick lunch to enter "Source Menu".
8. It's a quick lunch to enter "Copy Menu".
9. It's a quick lunch to enter "Load Menu".
10. It's a quick lunch to enter "Select Menu".

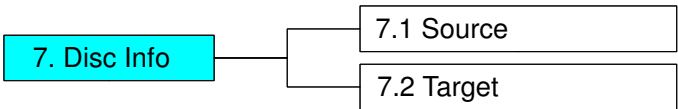


Chapter 2 Functions

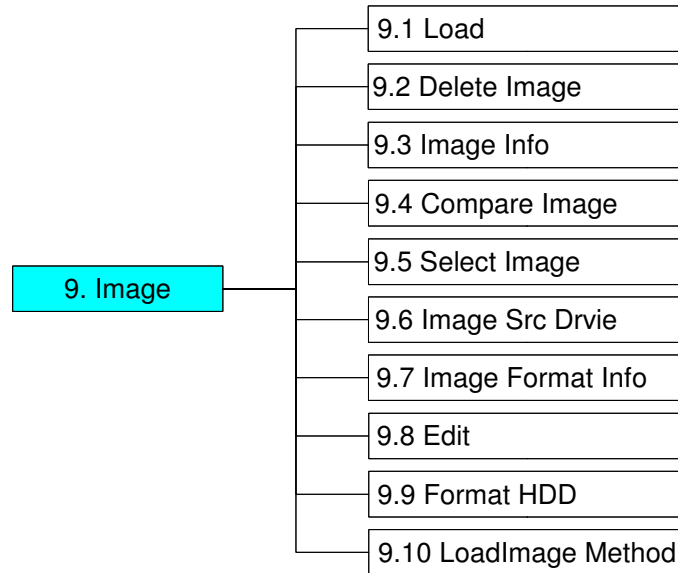
There are 11 major functions in the copy controller as the following figure shows, and there are subfunctions in Function 7, 9, 10, and 11 as the following figures show.



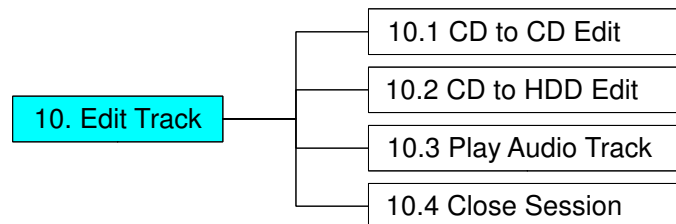
In Function 7 there are 2 subfunctions.



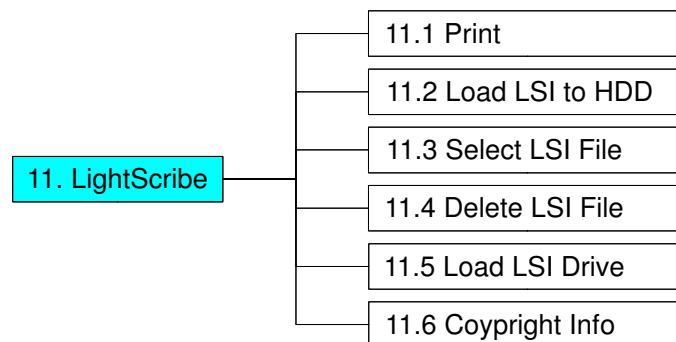
In Function 9 there are 10 subfunctions.



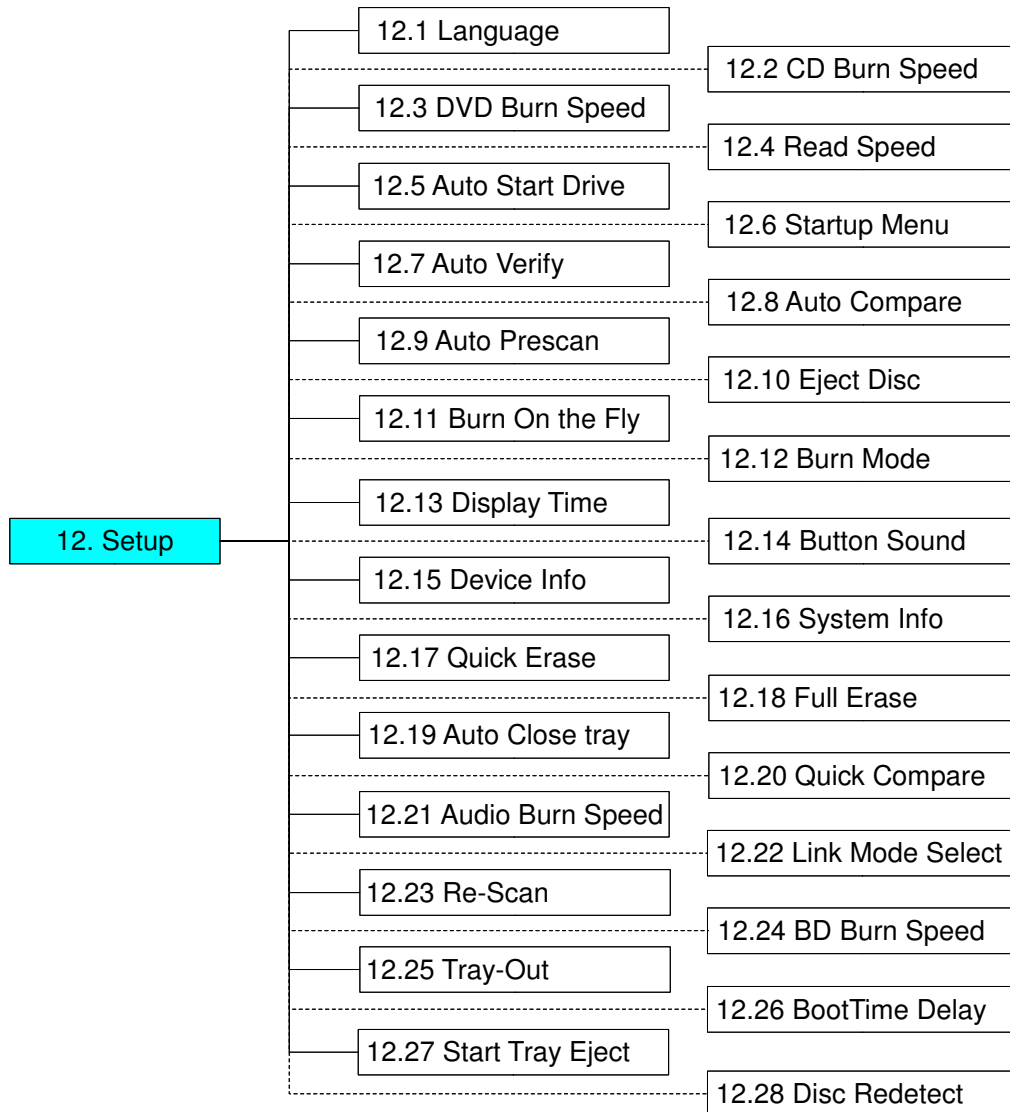
In Function 10 there are 4 subfunctions.



In Function 11 there are 6 subfunctions.



In Function 12 there are 28 subfunctions.



Attention:

Only when the ARS-2050B/ARS-2050PN/ARS-2064B copy controller is set to “First Tower” (Host mode) under “12-22. Link Mode Select” will the “12-23. Re-Scan” sub-option appears.

Among the 11 functions, Function 10 Edit Track is designed exclusively for editing a collection of favorite songs from CDs. During operation if you don't understand an LCD message, see Appendix A .

2.1 Copy

Function 1 Copy is copy functions allows instant copy of source (original disc/image) to the target drives (burners). Before copying be sure that the source DVD is placed into DVD-ROM, or there are data in a certain HDD partition if you have installed a hard drive. If you are not so sure of real copying, use Function 2 Test to simulate first.

Select function 1. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers. A rewriteable DVD containing old data is also usable, but the old data will be automatically erased.

1. Copy

After the DVD-ROM and DVD writers detect DVDs, press **ENT** to start copying. LCD will show the copying information.

When copying is in progress, MB and time will decrease while the percentage of completion will increase. "MB" means the size of data that you want to copy.

When copying comes to an end, the LCD will change to display between the spending time and the amount of good disc. The passed DVDs will eject automatically.

2.2 Test

Function 2 Test is simulation of duplication function, no data will be written to the media (CDR/DVDR).

Select function 2. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers. Only a DVD-R disc supports this function.

2. Test

Press **ENT** to start simulation. If you use DVD rewriteable discs that contain data, the old data will be quickly erased before simulation.

Then LCD will show the testing information.

When the test comes to an end, LCD will show the results.

Stopping the test halfway does not affect the DVDs, but if the DVD-rewriteable discs contain important data, they may be destroyed.

2.3 Test & Copy

Function 3 Test & Copy is to test first and then copy actually.

Select function 3. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers.

3. Test & Copy

Press **ENT** to start simulation. LCD will show the testing information.

When the test finishes, actual copying will begin.

When the whole process finishes, LCD will show the results.

Note that those discs that have passed the test will be copied right away while those that haven't won't be.

2.4 Verify (ARS-2039A do not have this function)

Function 4 Verify is to verify the data burned on CD/DVDs.

Select function 4.

4. Verify

Press **ENT** to verify. LCD will show the verification information.

When verification comes to an end, LCD will show the results.

2.5 Compare (ARS-2039A do not have this function)

Function 5 Compare is to make a comparison between the source DVD and the target DVDs after copying.

Select function 5. Put the source DVD into DVD-ROM and the target DVDs into DVD writers.

5. Compare

Press **ENT** to compare. LCD will show the comparison information.

When comparison comes to an end, LCD will show the results.

Press **ENT** to see the details of source 1.

If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source 1 and those of source 2 do not match.

2.6 Prescan

Function 6 Prescan is to scan if the source DVD can be read correctly, and by the way to test the reading speed.

Select function 6. Put the source DVD into DVD-ROM.

6. Prescan

Press **ENT** to prescan. LCD will show the scanning information.

When scanning finishes, and the source DVD can be read correctly, LCD will show the results.

2.7 Disc Info

Function 7 Disc Info is to generate a simple report of the source.

Select function 7. Put the source DVD into DVD-ROM.

7. Disc Info

Press **ENT**, and LCD will show the DVD information.

Press **ENT** again, and LCD will show the source information.

Press **ESC**, and then press **▲ ▼**, LCD will show the source information.

Press **ENT**, and LCD will show the target information. Then press **▲ ▼**, LCD will show the different target information.

2.8 Select Source (ARS-2040PX/ARS-2050P can select source from CH00 to CH05 only)

Function 8 Select Source is to identify and assign source drives.

Select function 8.

8. Select Source

The drive on CH01 will be chosen as source device. Press **ENT**, and then press **▲ ▼** to select the source.

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message.

When user select the partition without data at the HDD as source, the LCD will display error message. User could switch to other partition with data or load the image file to the partition by Function 9 Image.

Suppose you select HDD as the source and try to copy from one of its partitions, but the partition contains no data, an error message will appear on LCD. At this moment, you can switch to another partition that contains data, or use function 9 Image to load the data into the chosen partition first.

2.9 Image

Function 9 Image is valid only when you have installed a hard disk. This function includes 10 subfunctions: Load, Delete Image, Image Info, Compare Image, Select Image, Image Src Drvie, Image Format Info, Edit, Format HDD and LoadImage Method. The loaded data is called an image file. Refer to page 12 for the menu.

Select function 9.

9. Image

2.9.1 Load

Now press **ENT**, and you will enter the following figure. Here the function Load is to let you load data from DVD-ROM or any one of the DVD writers into the current partition of the hard disk. "P:A" means partition A.

9-01. Image P:A
Load

Press **ENT** to load. LCD will show the loading information.

After the image file is successfully loaded, LCD will show the results.

During the image loading progress, controller will locate and count the free space for loading image.

2.9.2 Delete Image

If you want to delete an image file stored in a particular partition, you can use the function Delete Image to do so. First, select the function by pressing ▼.

9-02. Image P:A Delete Image

The system will ask if you are sure to delete. Use ▲ ▼ to confirm Yes or No.
After the image file is deleted, LCD will show the results.

2.9.3 Image Info

This function is to show the basic information of an image file stored in a particular partition. First, select the function by pressing ▼.

9-03. Image P:A Image Info

Press **ENT**, and LCD will show the information of the image file.

2.9.4 Compare Image

This function is to compare the contents of the source DVD and those of the image file in the partition. First, select the function by pressing ▼.

9-04. Image P:A Compare Image

Press **ENT**, and LCD will show the information of the image file.

When comparison comes to an end, LCD will show the results.

Press **ENT** to see the details of source.

Then press **ENT** to see the details of target. If the comparison is identical, LCD will show the message.

If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source and those of target do not match.

2.9.5 Select Image

This function is to select a partition that has images in the hard disk. First, select the function by pressing ▼.

9-05. Image P:A Select Image

Select a partition by pressing ▲ ▼ , and LCD will show the message.

After the partition is selected, LCD will show the results.

2.9.6 Image Src Drive

This function is to select DVD-ROM or any of the DVD writers as the source from which you can load data into a particular partition as an image file.

First, select the function by pressing ▼.

9-06. Image P:A
Image Src Drive

Then, use ▲ ▼ to select DVD-ROM or any of the DVD writers as the source.

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message.

This function will make system to search which tray with disc and setting as source automatically.

2.9.7 Image Format Info

This function is to see how you have formatted your hard disk. It is related to function 12.4 Format HDD. There are 3 formats for choice: CD, DVD, and DL (Double Layer).

Now press **ESC** and ▼ to enter the following figure.

9-07. Image P:A
Image Format Info

Press **ENT** to see the following figure. This figure shows that the hard disk has been formatted as DVD.

2.9.8 Edit

This function is to name a certain partition, but only when the partition contains an image file can title editing be valid. First, select the function by pressing ▼.

First, select the function by pressing ▼.

9-08. Image P:A
Edit

Press **ENT**. A title should be composed of 1 to 13 characters. The character can be A, B, C, etc. or 1, 2, 3, etc. or the combination of both. Use ▲ ▼ to select the number or alphabet. After selecting a desired one, press **ENT**.

After keying in the title, press **ENT**.

The image file could name at 3 titles as main title, sub-title 1 and sub-title 2. User could set the name by pressing **ENT** button or pressing **ESC** button to end the naming. (The main title should be set the name as necessary. Sub-title 1 and sub-title 1 are optional for user to name after the main title was done. Press **ENT** button to name the character keying and press **ESC** button to end the keying.)

2.9.9 Format HDD

Now press **ESC** and ▼ to enter the following figure. Format HDD is to partition the hard disk. But after formatting, all data on the hard disk will be deleted.

9-09. Image P:A
Format HDD

If your copy controller doesn't connect with a hard disk, LCD will show the message as No Valid HDD!

If your copy controller is connect with a hard disk, LCD will ask you to choose partition type. There are 5 types of partition size for you to choose, which are F_S, DVD, CD, DL and Auto.

Press **ENT**. All data on the hard drive will be lost after the format and you are asked to confirm again. The default is No. Press ▼ to select Yes.

After the hard drive is formatted correctly, LCD will show the message as Format HDD ok!. Press **ENT** to verify HDD or press ▼ and choose No to finish Format HDD.

How do I choose HD partition type?

In DVD a partition occupies 5GB, in CD 1GB, in DL 10GB and in Auto 1GB. When hard drive is partitioned as F_S, DVD, CD or DL, you are not allowed to load images larger than the partition size. (Ex: If you choose to partition as DVD, you are only allowed to load DVD and CD images but not DL.) When hard drive is partitioned as Auto, controller will automatically occupy partitions for your image type. (Ex: If you choose to partition as Auto, controller will occupy 1 partition and 5 partitions when CD and DVD images are loaded respectively.) Therefore, Auto is the most efficient way to load images of different type.

Partition Type	Partition Size	Images to load

2.9.10 LoadImage Method

Now press **ENT** and ▼, and you will enter the following figure. This function is to change the way to save Image. There are 2 formats for choice: Auto and Manual.

9-10. Image P:A
LoadImage Method

The default is Auto.

Press **ENT**, and use ▲ ▼ to confirm Auto or Manual.

Then press **ENT** to save.

2.10 Edit Track (for CD only) (ARS-2039A do not have this function)

Function 10 Edit Track is exclusively designed for editing a collection of favorite songs from CDs. In other words, it can collect different tracks (songs) on a number of CDs and merge them into a single CD. This function includes 4 subfunctions: CD to CD, CD to HDD, Play Audio Track and Close Session. Refer to page 12 for the menu.

Select function 10.

10. Edit Track

2.10.1 CD to CD Edit

Now press **ENT**, and you will enter the following figure. Here the function CD to CD Edit lets you select a track or more from CD-ROM, and then copy into blank CD-R/RWs.

10-01. Edit Track
CD to CD Edit

Now press **ENT**. Here 1/10 means the number one of the 10 tracks, and 03:25 means the length of track.

You can press **▼** to see the second track and so on. Suppose we decide to select the first track, then press **ENT**. A “+” will appear beside 1/10. But pressing **ENT** again may cancel the selection. After selecting, please use **▲** to move to the “End” menu.

Press **ENT** to finish the CD editing, and use **▲ ▼** to confirm Yes or No. LCD will show the copying information.

“1/1” means the first track of all tracks we have selected, and here we have just selected one track. When copying comes to an end, LCD will show the message.

The system will ask if you want to keep editing. Please use **▲ ▼** to confirm Yes or No.

If you want to keep editing, the current source CD will eject automatically, and the system will ask you to insert another new CD.

After inserting the new CD, press **ENT** to edit as before. Suppose we decide to select the second track, then press **ENT**. A “+” will appear beside 2/10.

After selecting, please use **▲** to move to the “End” menu.

Press **ENT** to finish the CD editing, and use **▲ ▼** to confirm Yes or No. LCD will show the copying information.

“2/2” means the second track of all tracks we have selected, and so far we have selected two tracks from two different CDs. When copying comes to an end, LCD will show the message.

The system will ask if you want to keep editing. Suppose we don’t like to continue, then press **▼** to confirm No.

Now press **ENT**. The system will ask if you want to close all CDs’ sessions. Please use **▲ ▼** to confirm Yes or No.

When closing comes to an end, LCD will show the message.

2.10.2 CD to HDD Edit

After closing sessions, press **ESC** and **▼** to enter the following figure. Here the function CD to HDD Edit lets you select a track or more from CD-ROM, and then copy into a certain partition of HDD.

10-02. Edit Track CD to HDD Edit

Now press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the playing time.

Suppose we decide to select the first track, then press **ENT**. A “+” will appear beside 1/10. But pressing **ENT** again may cancel the selection.

After selecting, please use **▲** to move to the “End” menu.

Press **ENT** to finish the CD editing, and use **▲ ▼** to confirm Yes or No.

Then, the track as an image file will be loaded into HDD. LCD will show the loading information.

When loading comes to an end, LCD will show the message.

The system will ask if you want to keep editing. Please use **▲ ▼** to confirm Yes or No.

If you want to keep editing, the current source CD will eject automatically, and the system will ask you to insert another new CD.

After inserting the new CD, press **ENT** to edit as before. Suppose we select the second track, then press **ENT**. A “+” will appear beside 2/10.

After selecting, please use **▲** to move to the “End” menu.

Press **ENT** to finish the CD editing, and use **▲ ▼** to confirm Yes or No.

Then, the track as an image file will be loaded into HDD. LCD will show the loading information.

When loading comes to an end, LCD will show the message.

The system will ask if you want to keep editing. This time please use **▼** to confirm No.

Then, the system will ask if you want to burn from HDD into CD-R/RW or move into a partition.

Please use **▲** to confirm Burn.

After pressing **▲** , LCD will show the copying information.

When burning finishes, LCD will show the results.

2.10.3 Play Audio Track

This function is to make the copy controller act as a music player. You can connect a headphone to the headphone jack on the source, and enjoy the music.

Now press **ESC** and **▼** to select the function.

10-03. Edit Track
Play Audio Track

Use **▲ ▼** to select the track you want to play.

After selecting and pressing **ENT**, LCD will show the playing information.

2.10.4 Close Session

This function is to close CDs and let no data written into. After closing, you can put the CDs on any normal player and listen.

Now press **ESC** and **▼** to select the function.

10-04. Edit Track
Close Session

After pressing **ENT**, the system will ask if you are sure to close.

After pressing **ENT**, LCD will show the message.

2.11 LightScribe (Optional Function)

Function 11 LightScribe is an optical disc recording technology that uses specially coated recordable CD and DVD media to produce laser-etched labels with text or graphics, as opposed to stick-on labels and printable discs. This function includes 6 subfunctions: Print, Load LSI to HDD, Select LSI File, Delete LSI File, Load LSI Drive and Copyright Info. Refer to page 12 for the menu.

Select function 11.

11. LightScribe

2.11.1 Print

Now press **ENT**, and you will enter the following figure. The function Print lets you use the laser in a way similar to when plain data is written to the disc.

11-01. LightScribe
Print

Press **ENT** to start printing, LCD will show the printing information.

2.11.2 Load LSI to HDD

Now press **ESC** and **▼** to enter the following figure. The function Load LSI to HDD lets you save the LSI file to hard disk.

11-02. LightScribe
Load LSI to HDD

Press **ENT** to start to load, LCD will show the information.

2.11.3 Select LSI File

Now press **ESC** and **▼** to enter the following figure. This function is to select a partition that has LSI Files in the hard disk.

11-03. LightScribe
Select LSI File

Press **ENT** and use **▼** to choose a LSI file.

And then Press **ENT** to confirm.

2.11.4 Delete LSI File

Now press **ESC** and **▼** to enter the following figure. If you want to delete a LSI File stored in a particular partition, you can use the function Delete LSI File to do so.

11-04. LightScribe
Delete LSI File

Press **ENT**, and LCD will show the information of the image file.

All data will be
lost delete? YES

Use **▲ ▼** to confirm Yes or No.

After the LSI File is deleted, LCD will show the results.

2.11.5 Load LSI Drive

Now press **ESC** and **▼** to enter the following figure. This function is to select DVD-ROM or any of the DVD writers as the source from which you can load LSI File into a particular partition.

11-05. LightScribe
Load LSI Drive

Press **ENT**, and LCD will show the information of the image file.

Select Load Src:
01 CH01 SUPER MU

Then, use **▲ ▼** to select DVD-ROM or any of the DVD writers as the source.

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message.

This function will make system to search which tray with disc and setting as source automatically.

2.11.6 Copyright Info

Now press **ESC** and ▼ to enter the following figure. This function is to see the LightScribe copyright information.

11-06. LightScribe
Copyright Info

Press **ENT** to see the following figure.

2.12 Setup

Function 11 Setup lets you change the default settings. Once you change a setting, remember to press **ENT** to save it. However, it is suggested to use the defaults for the optimal operation. This function includes 28 subfunctions: Language, CD Burn Speed, DVD Burn Speed, Read Speed, Auto Start Drive, Startup Menu, Auto Verify, Auto Compare, Auto Prescan, Eject Disc, Burn On The Fly, Burn Mode, Display Time, Button Sound, Device Info, System Info, Quick Erase, Full Erase, Auto Close Tray, Quick Compare, Audio Burn Speed, Link Mode Select, Re-Scan, BD Burn Speed, Tray-Out, BootTime Delay, Start Tray Eject and Disc Redetect. Refer to page 13 for the menu.

Select function 12.

12. Setup

2.12.1 Lanuage

Now press **ENT**, and you will enter the following figure. The function Language lets you select a language in which messages can be shown on LCD.

12-01. Setup
Language

Press **ENT**. The default is English. Spanish, Japanese, Traditional Chinese and Simplified Chinese are made to order.

2.12.2 CD Burn Speed

Now press **ESC** and ▼ to enter the following figure. This function lets you control the burning speed of CD writers.

12-02. Setup
CD Burn Speed

Press **ENT**. The default is 32X.

2.12.3 DVD Burn Speed

Now press **ESC** and ▼ to enter the following figure. The function DVD Burn Speed lets you control the burning speed of DVD writers.

12-03. Setup
DVD Burn Speed

Press **ENT**. The default is 16X.

2.12.4 Read Speed

Now press **ESC** and ▼ to enter the following figure. The function Read Speed lets you control the reading speed of target CDs.

12-04. Setup
Read Speed

Press **ENT**. The default is maximum, but there are still other choices: 32X, 16X and 8X.

2.12.5 Auto Start Drive

Now press **ESC** and ▼ to enter the following figure. Auto Start Drive is to copy or test automatically once you put blank DVDs into the writers.

12-05. Setup
Auto Start Drive

Press **ENT**. The default is Off. Press ▼ to select 1 (one blank DVD).

2.12.6 Startup Menu

Now press **ESC** and ▼ to enter the following figure. Startup Menu lets you select any one of the functions except Adv Setup as the first item appearing on the menu whenever you turn on the copy controller.

12-06. Setup
Startup Menu

Press **ENT**. The default is Copy. You can certainly select any other function as the first item, but remember to press **ENT** to confirm.

2.12.7 Auto Verify

Now press **ESC** and ▼ to enter the following figure. Auto Verify is to verify automatically if the target DVDs can be read after copying.

12-07. Setup
Auto Verify

Press **ENT**. The default is Off. Press ▼ to select On.

2.12.8 Auto Compare

Now press **ESC** and ▼ to enter the following figure. Auto Compare is to compare automatically the source DVD and the target DVDs after copying.

12-08. Setup
Auto Compare

Press **ENT**. The default is Off. Press ▼ to select On.

2.12.9 Auto Prescan (ARS-2039A do not have this function)

Now press **ESC** and ▼ to enter the following figure. Auto Prescan is to scan automatically if the source DVD can be read correctly, and by the way to test the reading speed.

12-09. Setup
Auto Prescan

Press **ENT**. The default is Off. Press ▼ to select On.

2.12.10 Eject Disc (ARS-2039A do not have this function)

Now press **ESC** and ▼ to enter the following figure. Eject Disc provides three choices. They are Eject Good Only, Eject All Disc, and Do Not Eject. Eject Good Only means that the DVDs will eject automatically only when they are copied successfully. Eject All Disc means that the DVDs will eject automatically whether they are copied successfully or not. Do Not Eject means that you need to eject the DVDs manually when copying finishes.

12-10. Setup
Eject Disc

Press **ENT**. The default is Eject Good Only. Press ▼ to select Eject All Disc or Do Not Eject.

2.12.11 Burn On The Fly

Now press **ESC** and ▼ to enter the following figure. Burn On The Fly lets you control the copying methods. When the setting is On, the data will be copied directly from the source DVD to the target DVDs. When the setting is Off, the data will be loaded into a partition of HDD first, and hence copying will be done.

12-11. Setup
Burn On The Fly

Press **ENT**. The default is On. Press ▼ to select Off.

2.12.12 Burn Mode

Now press **ESC** to return to Function 11, and then select part 12 Burn Mode as the following figure shows. Burn Mode lets you control the burning modes. There are two modes: DAO (Disc At Once) and TAO (Track At Once). They only supports CD. If the DVD writer doesn't support the mode you have selected, the copy controller will automatically switch to another mode.

12-12. Setup
Burn Mode

Press **ENT**. The default is DAO. Press ▼ to select TAO.

2.12.13 Display Time

Now press **ESC** and ▼ to enter the following figure. Display Time is to show the copying time.

12-13. Setup
Display Time

Press **ENT**. The default is On. Press ▼ to select Off.

2.12.14 Button Sound

Now press **ESC** and ▼ to enter the following figure. Button Sound lets you control the sound of a button when you press it.

12-14. Setup
Button Sound

Press **ENT**. The default is On. Press ▼ to select Off

2.12.15 Device Info

Now press **ESC** and ▼ to enter the following figure. Device Info shows the information of the DVD-ROM and any of the DVD writers you have installed.

12-15. Setup
Device Info

Press **ENT**, LCD will show the message .

2.12.16 System Info

Now press **ESC** and ▼ to enter the following figure. System Info shows the information of the system.

12-16. Setup
System Info

Press **ENT**, LCD will show the message.

2.12.17 Quick Erase

Now press **ESC** and ▼ to enter the following figure. Quick Erase is to erase the data on the DVD rewriteable discs quickly.

12-17. Setup
Quick Erase

Press **ENT**. Use ▲ ▼ to confirm Yes or No.

After confirming Yes and pressing **ENT**, LCD will show the message.

When erasing finishes, LCD will show the results.

2.12.18 Full Erase

Now press **ESC** and ▼ to enter the following figure. Full Erase is to erase the data on the DVD rewriteable discs completely. Compared with Quick Erase, Full Erase takes longer time to do the job.

12-18. Setup
Full Erase

Press **ENT**. Use ▲ ▼ to confirm Yes or No.

After confirming Yes and pressing **ENT**, LCD will show the message.

When erasing finishes, LCD will show the results.

2.12.19 Auto Close Tray

Now press **ESC** and ▼ to enter the following figure. Auto Close Tray is to close the writer's tray automatically. It is related to function 11.5 Auto Start Drive. If you haven't set any writer to copy in function 11.5, this function will be invalid.

12-19. Setup
Auto Close Tray

Press **ENT**.

Here 5 means that it takes 5 seconds to close the writer's tray automatically after copying finishes and the tray is ejected. Besides 5 seconds, there are 10, 15, 20, 25, 30, 35, 40, 45, and 50 seconds for choice. If you have set one or all seven writers in function 11.5, and choose 10 seconds here, then one writer's tray or all seven writers' trays will be closed in 10 seconds after copying finishes.

2.12.20 Quick Compare

Now press **ESC** and ▼ to enter the following figure. Quick Compare is related to function 5 Compare. It lets you set a certain byte. When the error of a target DVD is beyond the set byte, the comparison between the source DVD and the target DVD will stop. Yet the comparison of the other 6 target DVDs will continue.

12-20. Setup
Quick Compare

Press **ENT**. The default is Off, but you can press ▼ to choose a certain byte like 1 Byte, 1 KB, 10 KB, 100KB, 1 MB, etc.

2.12.21 Audio Burn Speed

Now press **ESC** and ▼ to enter the following figure. Audio Burn Speed lets you control the burning speed of audio CDs.

12-21. Setup
Audio Burn Speed

Press **ENT**. The default is 16X, but there are maximum, 40X, 32X, 24X, 20X, etc. for choice.

2.12.22 Link Mode Select (ARS-2050B/ARS-2050PN/ARS-2064B only)

Now press **ESC** and ▼ to enter the following screen.

12-22. Setup
Link Mode Select

Press **ENT** to enter the "Link Mode Select" screen.

Use ▲ ▼ to choose between the Stand Alone, Middle Tower or Last Tower modes as appropriate.

Attention:

Once a tower has been set as Middle Tower or Last Tower and the J14 jumper is also set to Target mode, the LCD will show that it is in Target mode.

2.12.23 Re-Scan (ARS-2050B/ARS-2050PN/ARS-2064B only)

Now press **ESC** and ▼ to enter the following screen.

12-23. Setup
Re-Scan

Press **ENT** to enter the “Re-Scan” screen. By default this is set to No.
Use ▲ ▼ to choose Yes then press ENT to scan the chosen connected tower.

2.12.24 BD Burn Speed (Optional Function)

Now press **ESC** and ▼ to enter the following figure. BD Burn Speed lets you control the burning speed of BDs.

12-24. Setup
BD Burn Speed

Press **ENT**. The default is 4X, but there are still other choices: 8X, 6X, 4X, 2X, etc. for choice.

2.12.25 Tray-Out (Optional Function)

Now press **ESC** and ▼ to enter the following figure. Tray-Out is to set the drive tray ejecting.

12-25. Setup
Tray-out

Press **ENT**. The default is ejecting all at once, press ▼ could select ejecting all by twice.

2.12.26 BootTime Delay (Optional Function)

Now press **ESC** and ▼ to enter the following figure. BootTime is setting the device scanning time during the system booting.

12-26. Setup
BootTime Delay

Press **ENT**. The default is 5 second, more option is up to 99 seconds.

2.12.27 Start Tray Eject (Optional Function)

Now press **ESC** and ▼ to enter the following figure. Start Tray Eject is setting the drive tray ejecting all when system is booting.

12-27. Setup
Start Tray Eject

Press **ENT**. The default is On. Press ▼ to select Off.

2.12.28 Disc Redetect (Optional Function)

Now press **ESC** and ▼ to enter the following figure. Disc Redetect will help to improve the bad quality disc of recognition. User could make the system to detect the disc one more time before the disc backup progress.

12-28. Setup
Disc Redetect

Press **ENT**. The default is Off. Press ▼ to select On.

Chapter 3 Troubleshooting

3.1 About LCD

After you power up, if there is no display on the LCD, check if the connection of power cord is firm and the environment of power outlet is normal.

3.2 About Error Messages

During Copy, Test, Compare and Verify, etc. if you press **ESC** to abort, an error message will appear on LCD. Abortion may cause the copy controller to hang up, therefore you have to power on again.

If reading fails, an error message will appear on LCD. Get a new source DVD to try again.

If the copy controller hasn't detected any device after powering on, an error message will appear on LCD.

3.3 About DVD-ROM/DVD Writers

If a DVD-ROM or a DVD writer cannot read, confirm the format of the source DVD and check if it is damaged.

Use any DVD writer to read the source DVD. If it works, the DVD-ROM is probably defective or not compatible with the source DVD.

3.4 About Buttons

If you press any one of the four buttons on the panel, but there is no response, it is perhaps that the button cannot function well. Inspect the jumper setting.

3.5 About DVD Writer Not Readable

After copying if the DVD writer is not readable, use Compare to examine, or get another DVD-ROM to test.

3.6 About High Failure Rate

If the failure rate of copying is high, do the following things to improve.

- Lower the speed of DVD writer.
- Inspect if the blank disc's quality is good.
- Update the firmware.
- Inspect the DVD writer's maximum writing speed. If the speed is over 8X, copy the data to a hard disk first, and then transmit to DVD.

3.7 About Firmware Update

If you cannot update the firmware, please inspect the firmware. Perhaps you have downloaded a wrong file.

Failure in firmware update may cause the copy controller to fail in booting. Under the circumstances, return the control board to distributor for repair.

Appendix A LCD Messages

1. Normal Conditions:

All data will be lost, erase?.....All data on the disc will be lost. Confirm the erasing of data.
Analyzing.....Analyze the source disc.
Audio Disc!!! Can't compare!..... The system cannot compare the audio discs.
Cannot read TOC..... The system cannot read the contents of disc.
Check Target Please WaitThe system is checking the target device.
Detect Drives.....Detect what drives are connected with the system.
DVD-RW does not Support the Func..... DVD-RW doesn't support this function.
Erase Finished..... The erasing of data comes to an end.
Erasing disc.....The system is erasing the data on the disc.
Fail to get Drive Info!..... The drive information cannot be obtained.
Fail to get Src Disc Info!..... The information of source disc cannot be obtained.
Hold ESC to exit..... Press ESC for a second to terminate the test.
Identical..... The comparison results are the same.
Initialize SDRAM.....Initialize the memory of the system.
Load Default Config?.....Do you want to load the default settings?
No Erasable Disc in DVD-RW!!.....The disc on the DVD-RW device is not rewritable.
Preparing..... The system is preparing to record.
Press a Key to Eject Fail Disc.....Press any key to eject the failed disc after copying.
Press a Key to Eject Good Disc..... Press any ket to eject the good disc after copying.
Read disc errorDuring comparison the disc cannot be read.
Save new config Fail!..... The new setting of configuration cannot be saved.
Source Disc Empty!!!..... The source disc doesn't contain any data.
Source Disc Not Ready..... Source disc is not ready to be read.
Source Drive Not Ready.....Source drive is not ready to read.
Src&Tgt can't in the same channel.....
During comparison the source and target discs cannot be in the same channel.
Target Disc Not Empty!!!..... The target disc still has data.
Target Disc Not Ready..... Target disc is not ready to be written into.
Target Drive Not Ready.....Target drive is not ready to write.
Target overflow..... The target disc hasn't enough capacity to store new data.
TOC not match..... The comparison results are not the same.
User Abort!.....Cancel the job during operation.

2. Connecting with a HDD:

All data will be lost, format?.....
All data on the hard disk will be lost. Confirm the formatting of hard disk.
Delete Image in Partition xx?.....Confirm the deleting of data image in partition xx.
Format HDD?..... Ask if you want to format the hard disk.
Format HDD OK!The Formatting of hard disk has been completed.
HDD not Format!.....The hard disk hasn't been formatted yet.
HDD too small The capacity of hard disk is too small.
HDD too small to handle image!.....
The hard disk hasn't enough capacity to store the data image (at least 5Gbytes).
Image Exists Overwrite?.....
There is a data image in the current partition. Confirm the overwriting of data.
Image load Fail.....The image isn't successfully loaded from DVD to the hard disk.
Image load OK..... The image is successfully loaded from DVD to the hard disk

No Image in Partition xx.....There is no data image in partition xx.
No Valid HDD!..... The system cannot find a hard disk.
Partition Damage.....The partition is damaged.
Select HD First!..... Select a formatted hard disk at first.
Verify Disk or Partition?..... Do you want to verify the hard disk or just a partition?
Verify Hard Disk Fail!..... The hard disk is not verified successfully.

3. Audio Editing:

Burn or Move to partition?.....
.....Do you want to directly copy the data into disc or move them to the partition.
Can't edit HDD..... The hard disk cannot be edited as a source audio disc.
Close all disc's session?..... Confirm the closing of disc sessions.
Continue edit next Disc?..... Ask if you want to continue the music disc editing.
End edit disc and burn?..... Finish the music disc editing and start to copy.
Erase selected Tracks?..... Abort the selected tracks and delete them.
Ins empty disc Continue?..... Do you want to insert a blank disc and continue copying?
Insert next disc..... Insert the next audio disc.
NO AUDIO track in this disc..... The source disc has no audio track.
Sessions were closed already! The disc sessions have already been closed.
Target Overflow Re-Select.....
.....The disc capacity is not enough to store the selected tracks. Please select again.
Tgt overflow, del last trk?..... The
disc capacity is not enough to store the selected tracks. So, do you want to delete the last track?

4. Firmware Update:

Check Sum Error!..... The updated firmware has errors.
Flash ROM fail!..... Data cannot be written into Flash ROM.
Invalid firmware The disc doesn't contain a valid firmware.
Last update F/W Fail!..... The firmware is not updated successfully.
Last update F/W OK!..... The firmware is updated successfully.
Searching F/W The system is searching for a valid firmware.
Source can't be Hard Disk!.....During comparison the source cannot be hard disk.

